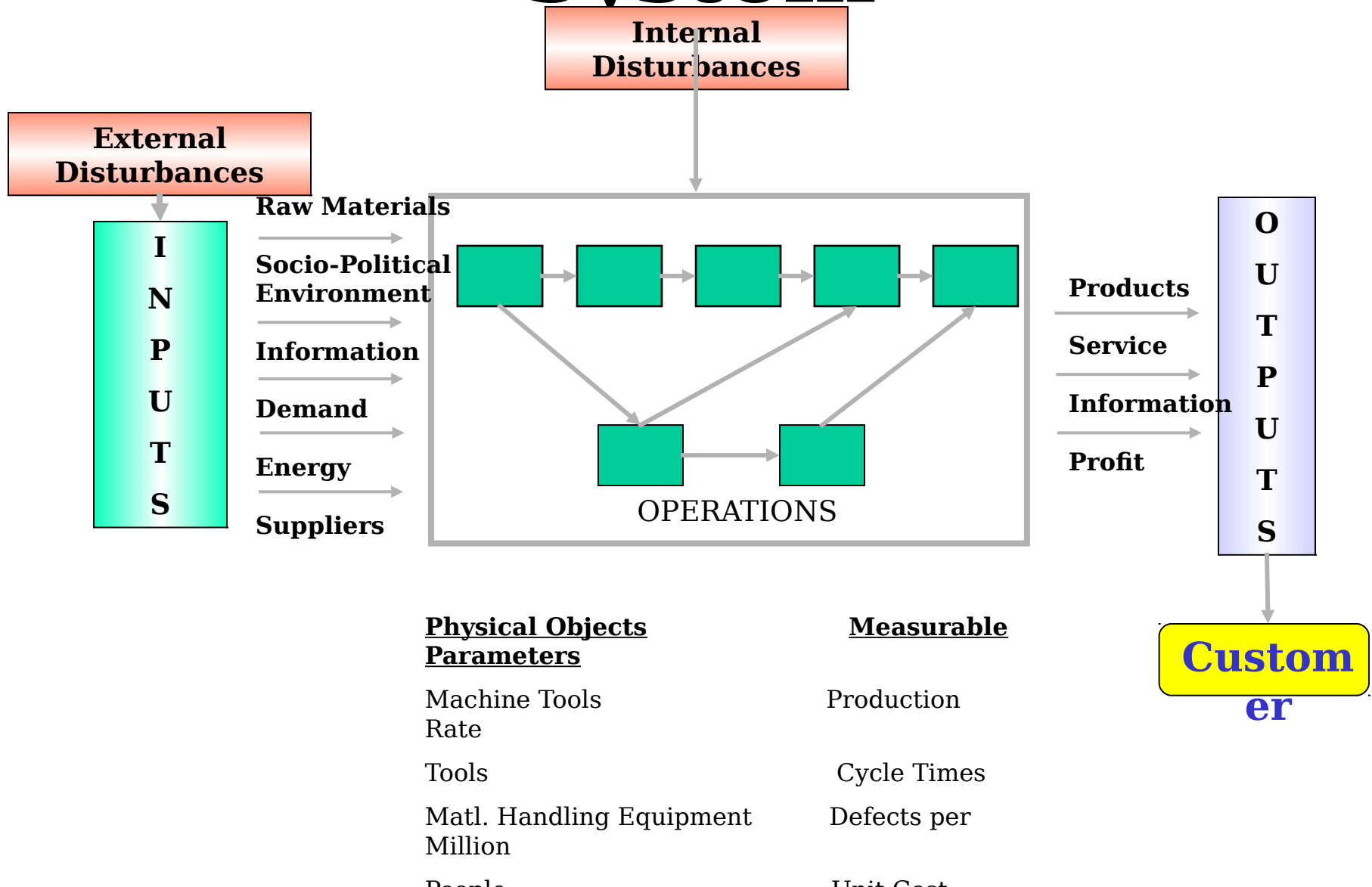


A Manufacturing System



What is a Manufacturing System?

“A ROI-oriented, highly interactive network of processes through which materials and information flow.”

**Adapted from
Hopp and
Spearman
Factory Physics**

What is a Manufacturing System?

The arrangement and operation of machines, tools, people, suppliers, material and information to produce a value-added product, whose success and cost are characterized by measurable parameters.

Why are Mfg Systems so hard to manage?

- Interactions
- Time lags
- Non-linearities
- People
- Conflicting goals
- Short-term vs Long-term benefits
- Effect of uncontrollable external forces
- Must interface with

CLASSIC SYSTEMS BEHAVIOR !
A COMPLEX, TIGHTLY COUPLED
NETWORK
design & suppliers